

APPENDIX D

NOTATION

A	Drainage area, acres, total area of clear opening, or cross-sectional area of flow, ft ² .
AHW	Allowable headwater depth, ft.
B	Width, ft.
C	Coefficient.
D	Height of culvert barrel, ft.
d	Depth or thickness of grate, ft.
d _c	Critical depth, ft.
F	Infiltration rate, in/hr.
g	Acceleration due to gravity, ft/sec ² .
H	Depth of water, ft.
H _f	Headloss due to friction, ft.
HW	Headwater, ft.
h _o	Distance from culvert invert at the outlet to the control elevation, ft.
I	Rainfall intensity, in/hr.
i	Hydraulic gradient.
K	Constant.
K _e	Coefficient.
k	Coefficient of permeability.
L	Length of slot or gross perimeter of grate opening, or length, ft.
L ₁	Adjusted length, ft.
L _s	Length of spiral, ft. (nonsuperelevated channel).
L _t	Length of spiral, ft. (superelevated channels).
n	Manning's roughness coefficient.
Q	Discharge or peak rate of runoff, cfs.
R	Hydraulic radius, ft.
R _c	Radius of curvature center line of channel, ft.
S	Slope of energy gradient, ft/ft.
S ₀	Slope of flow line, ft/ft.
T	Top width at water surface, ft.
TW	Tailwater, ft.
V	Mean velocity of flow, ft/sec.
v	Discharge velocity in Darcy's law, ft/sec.
γ	Depth of water, ft.